

Search Report from Ginger R. DeMille

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File 348:EUROPEAN PATENTS 1978-2004/Sep W02

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File 349:PCT FULLTEXT 1979-2002/UB=20040923,UT=20040916

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Set	Items	Description
S1	8983	CONTROLL?R?(S) (POLICY OR RULE? ? OR REGULATION? ? OR AGREE- MENT? ? OR CONTRACT? ?)
S2	125324	CONTROLL?R?(S) (LOCK? ? OR CONTROL? ? OR SAFEGUARD? ? OR SA- FE()GUARD? ? OR SECURE? OR SECURING OR SECURITY OR ACCESS?)
S3	5601	S2(S) (POLICY OR POLICIES OR RULE? ? OR REGULATION? ? OR AG- REEMENT? ? OR CONTRACT? ?)
S4	1881	S3(S) (HIERARCH? OR TIER? OR PRIORITY OR PRIORITI? OR SEQUE- NTIAL? OR SEQUENC? OR HEIRARCH? OR TOP()DOWN OR ORDER? OR ARR- ANG?)
S5	175	S4(S) (POLICY OR POLICIES)
S6	175	S5 NOT 350,344,347,371
S7	24	S6 NOT PY>1999
S8	15	S7 AND IC=G06F

? t8/3,k/all

8/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00926115

Shared memory computer networks

Computernetzwerk mit verteiltem Speicher

Reseau d'ordinateurs a memoire partagee

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PATENT (CC, No, Kind, Date): EP 844559 A2 980527 (Basic)

EP 844559 A3 980610

APPLICATION (CC, No, Date): EP 97309471 971121;

PRIORITY (CC, No, Date): US 754481 961122

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; NL;  
PT; SE

INTERNATIONAL PATENT CLASS: G06F-009/46

ABSTRACT WORD COUNT: 79

LANGUAGE (Publication,Procedural,Application): English; English; English

127-Sep-0411:12 AM

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FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9822	1344
SPEC A	(English)	9822	8361
Total word count - document A			9705
Total word count - document B			0
Total word count - documents A + B			9705

INTERNATIONAL PATENT CLASS: G06F-009/46

...SPECIFICATION recent usage.

In one optional embodiment, the nodes of the network are organized into a **hierarchy** of groups. In this embodiment, the memory subsystems 32a-32c can include a **hierarchy** manager that provides **hierarchical control** for the distribution of data. This includes controlling the migration **controller**, and **policy controller**, which are discussed in detail below, to perform **hierarchical** data migration and load balancing, such that data migrates primarily, between computers of the same group, and passes to other groups in **hierarchical order**. Resource distribution is similarly managed.

FIG. 3 illustrates in more detail one shared memory subsystem...

8/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00538820

**Hierarchical data storage system.**

**Hierarchisches Datenspeicherungssystem.**

**Système hiérarchique de stockage de données.**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

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LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 508755 A2 921014 (Basic)

EP 508755 A3 950208

APPLICATION (CC, No, Date): EP 92303127 920408;

PRIORITY (CC, No, Date): US 683768 910410

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/06

ABSTRACT WORD COUNT: 232

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	705
SPEC A	(English)	EPABF1	5974
Total word count - document A			6679
Total word count - document B			0
Total word count - documents A + B			6679

INTERNATIONAL PATENT CLASS: G06F-003/06

...SPECIFICATION storing object information thereon.

OAM 27 includes OAM Storage Management Component (OSMC) 28 and Library Control System (LCS) 29. OSMC 28 is connected to the LCS 29, to the OSR 23 an object storage **hierarchy** based on a specified storage management **policy**. OSMC 28 management includes determining where objects are to be stored, moving objects within an object storage **hierarchy**, managing object backup, and determining object expiration. LCS 29 is connected to the OSR 23, the configuration tables 26, and to the system **controller** 17 of the automated optical disk library 1. LCS 29 reads and writes objects to optical disks, manages volumes storing those objects, and **controls** the system **controller** 17.

The second level storage 31 includes DASDs DIR 32, STORE 33, and Configuration Database...

8/3,K/3 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00538532

**Automated storage library**

**Automatisierte Speicherbibliothek**

**Bibliothèque de memoire automatisee**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Beglin, Thomas William, 739 North Constitution Drive, Tucson, Arizona  
85748, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 508666 A2 921014 (Basic)  
EP 508666 A3 950201  
EP 508666 B1 980527

APPLICATION (CC, No, Date): EP 92302832 920331;

PRIORITY (CC, No, Date): US 683470 910410

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/06 ; G11B-027/00

ABSTRACT WORD COUNT: 183

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9822	633
CLAIMS B	(German)	9822	631
CLAIMS B	(French)	9822	767
SPEC B	(English)	9822	4564
Total word count - document A			0
Total word count - document B			6595
Total word count - documents A + B			6595

INTERNATIONAL PATENT CLASS: G06F-003/06 ...

...SPECIFICATION storing object information thereon.

OAM 27 includes OAM Storage Management Component (OSMC) 28 and Library

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**Control** System (LCS) 29. OSMC 28 is connected to the LCS 29, to the OSR 23...

...is to manage an inventory of hundreds of millions of objects within an object storage **hierarchy** based on a specified storage management **policy** . OSMC 28 management includes determining where objects are to be stored, moving objects within an object storage **hierarchy** , managing object backup, and determining object expiration. LCS 29 is connected to the OSR 23, the configuration tables 26, and to the system **controller** 17 of the automated optical disk library 1. LCS 29 reads and writes objects to optical disks, manages volumes storing those objects, and instructs the system **controller** 17.

The second level storage 31 includes DASDs DIR 32, STORE 33, and Configuration Database...

8/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00484725

**Multilevel inclusion in multilevel cache hierarchies**  
**Mehrstufigeneinschluss in mehrstufigen Cache-Speicherhierarchien**  
**Inclusion a niveaux multiples dans des hierarchies d'antemoires a niveaux multiples**

**PATENT ASSIGNEE:**

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**LEGAL REPRESENTATIVE:**

Brunner, Michael John et al (28871), GILL JENNINGS & EVERY Broadgate  
House 7 Eldon Street, London EC2M 7LH, (GB)

**PATENT (CC, No, Kind, Date):** EP 461926 A2 911218 (Basic)  
EP 461926 A3 920506  
EP 461926 B1 980902

**APPLICATION (CC, No, Date):** EP 91305422 910614;

**PRIORITY (CC, No, Date):** US 538894 900615

**DESIGNATED STATES:** AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

**INTERNATIONAL PATENT CLASS:** G06F-012/08

**ABSTRACT WORD COUNT:** 277

**LANGUAGE (Publication,Procedural,Application):** English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9836	1637
CLAIMS B	(German)	9836	1255
CLAIMS B	(French)	9836	2272
SPEC B	(English)	9836	8757
Total word count - document A			0
Total word count - document B			13921
Total word count - documents A + B			13921

**INTERNATIONAL PATENT CLASS:** G06F-012/08

...SPECIFICATION invalid depending on the status of its respective line valid bit.

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A principal cache management **policy** is the preservation of cache coherency. Cache coherency refers to the requirement that any copy...

...modified location in a write-back cache. In computer systems where independent bus masters can **access** memory, there is a possibility that a bus master, such as a direct memory **access controller**, network or disk interface card, or video graphics card, might alter the contents of a...

...cache. When this occurs, the cache is said to hold "stale" or invalid data. In **order** to maintain cache coherency, it is necessary for the cache **controller** to monitor the system bus when the processor does not own the system bus to see if another bus master **accesses** main memory. This method of monitoring the bus is referred to as snooping.

The cache...

8/3,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00180796

Cache hierarchy design for use in a memory management unit  
Entwurf einer Cache-Hierarchie zur Anwendung in einer  
Speicherverwaltungseinheit

Projet de hierarchie d'antememoires a utiliser dans une unite de gestion de  
memoire

PATENT ASSIGNEE:

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303-306 High Holborn, London, WC1V 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 170525 A2 860205 (Basic)  
EP 170525 A3 890913  
EP 170525 B1 971001

APPLICATION (CC, No, Date): EP 85305453 850731;

PRIORITY (CC, No, Date): US 636190 840731

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-012/08 ; G06F-012/10

ABSTRACT WORD COUNT: 172

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9709W4	528
CLAIMS B	(German)	9709W4	545
CLAIMS B	(French)	9709W4	601
SPEC B	(English)	9709W4	7024
Total word count - document A			0
Total word count - document B			8698
Total word count - documents A + B			8698

INTERNATIONAL PATENT CLASS: G06F-012/08 ...

... G06F-012/10

...SPECIFICATION only a logical address cache is present (i.e., no virtual address cache) then its **controller** will have to decide whether an existing pointer is being destroyed or a new one is being created, i.e., the **controller** will have to support the Read-modify-write feature. This overhead will degrade the performance...

...until these decisions are resolved the CPU-MMU interface cannot be released. With the cache **hierarchy** design disclosed herein, the overhead of detecting whether an existing pointer is being destroyed or a new one is being created can be handled by the **controller** of the virtual address cache, i.e., the **controller** for the virtual address cache needs to support the Read-modify-write feature. The MMP...

...Write instruction, the CPU-MMU interface is released, allowing the CPU to initiate a new **access** to memory. As explained later, in **order** to support this strategy of performance enhancement, it is necessary to employ the "write-through" **policy** for both caches.

There are two policies to keep the cache consistent with the backing...

8/3,K/6 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00470876 \*\*Image available\*\*

SYSTEM FOR SYNDICATION OF INSURANCE

SYSTEME DE SYNDICAT D'ASSURANCE

Patent Applicant/Assignee:

WALKER ASSET MANAGEMENT LIMITED PARTNERSHIP,

Inventor(s):

WALKER Jay S,

SPARICO Thomas M,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9901810 A2 19990114

Application: WO 98US13720 19980701 (PCT/WO US9813720)

Priority Application: US 97886256 19970701

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM  
GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX  
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM  
KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI  
FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 10653

Main International Patent Class: G06F-017/60

Fulltext Availability:

Claims

Claim

... syndication central

server,

Figure 6A is an illustration of a web page used to post  
**policy** information for those **policies** offered in

syndication.

Figure 6B is an illustration of a web page used to submit **orders** for syndication of a **policy** ,  
Figure 6C is an illustration of a web page used to confirm an investor's **order** ,  
Figure 7 is a block diagram illustrating the credit card issuing bank server,  
Figure BA...

...bank

server,

5 Figure 9 is a flowchart describing the process by which an insurance **policy** is offered in syndication by posting on the syndication website,  
Figure 10 is a flowchart...

...an investor visiting the syndication website

initiates a purchase of a portion of an insurance **policy** offered in syndication.

Figures 11A and 11B are connected flowcharts describing the process by which the insurance syndication service central server processes an **order** placed by an investor.

Figure 12 is a flowchart describing the process executed by the insurance company central server when the syndication central server processes an investment **order** ,

Figure 13 is a flowchart describing the process by which the insurance company server processes a premium payment for a **policy** offered in syndication,

Figure 14 is a flowchart describing the process by which the insurance company server processes a claim on a **policy** offered in syndication.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

An overview of a preferred embodiment...

...Figure 1, one or more insurance

companies, each having an insurance company server 110, transmits **policy** information 101 relating to a **policy** or **policies** being offered in syndication to an insurance syndication service central server 120, The means for determining whether or not the **policies** should be offered in syndication is established by each insurance company and is a matter of risk management for the respective companies. The insurance company server transmits the **policy** information 101 via a network 100 such as the Internet, The syndication service central server 120 makes the **policy** information 101, together with syndication information 102, available for viewing by visitors to a syndication...through a conventional user interface 140, At the website 130 are listings of all insurance **policies** which are offered in syndication, The user browses the various **policies** and picks one or more he is interested in as an investment, Using the conventional interface 140, the user enters his investment **order** 103; the **order** includes the **policy** number, the amount of the **policy** the user wishes to invest in, the terms of investment

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(time period, etc,)), and other...

...and

personal information, including his electronic mail (E-mail") address, He then directs his investment **order** , including the information he has entered, to be transmitted to the insurance syndication service central...

...the Internet,

The syndication central server 120 receives the user investment transaction information 104 including:

**policy** number, amount of **policy** purchased in syndication, user information, credit card type and number, and expiration date, The syndication...

...unused

credit line for the amount of risk assumed in purchasing the segment of the **policy** . The credit card transaction request 105 is transmitted to a server 150 maintained by the...

...syndication

central server 120 that the amount has been frozen for the term of the **policy** investment. (It should be noted that credit line freezes are usually for a maximum of...

...account with that

bank, the bank immediately notifies the insurance agency and the terms of **policy** investment are canceled immediately,

The syndication central server 120, having received the verification 106 of...

...35 receipt 107 to the investor, using the e-mail address provided with the investment **order** . This receipt is

- 12

then available to the user (investor) 141 in printed form by...to be

paid to each investor, The appropriate portion of the premium received from the **policy** holder is sent via mail or electronic transfer to the user (investor) 141 on a...

...as established in the terms of the investment,

When a claim is filed on the **policy** offered in syndication, the insurance company, after determining that the claim is valid, **accesses** the syndication information in the databases 115 and extracts the appropriate credit line information for all members in the syndicate for that **policy** , The company then draws on the credit line of each investor's credit card for...

...percentage of the amount paid out by

the company based on the percentage of the **policy** owned in syndication, The credit card issuing bank server 150 receives data 109 regarding this...



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- ...issuing bank notifies the syndication service, which subsequently cancels the investor's stake in the **policy** , The service then notifies the insurance company and the databases 115 and 125 are 35 updated accordingly to reflect the new inventory, premium, and syndication information.  
This **arrangement** described above is preferable when a **policy** or group of **policies** is offered by a plurality of insurance companies, The syndication service then functions as a clearinghouse for the various **policies** 5 offered and various investor **orders** , Alternatively, the system may be implemented by a single insurance company, in which case the...
- ...The server has a Central Processing Unit (CPU) 201, to which are connected a Random- **Access** Memory (RAM) 202, Read-Only Memory (ROM) 203, cryptoprocessor 204, communication port 205 and data...
- ...a Pentium.  
microprocessor manufactured by Intel, Inc,  
The data storage device 210 includes several databases:  
**policy** holder database 310, **policy** database 320, syndication (by **policy** ) database 330, investor (by **policy** ) database 340, issuing bank database 350, claims 5 database ...each  
of these databases is shown in tabular form in Figures 3A-3H, respectively, ,  
The **policy** holders of the insurance company are listed in the **policy** holder database 310. As shown in Figure 3A, each **policy** holder has an ID number 311, associated with which are various items of personal information (name 312, address 313, phone number 314, Social **Security** number 316 and birthdate 317), The number of active **policies** 315 held by each **policy** holder is also listed.  
The fields of the **policy** database 320 are shown in Figure 3B, Each **policy** , identified by a **policy** number 327, has a separate entry which also includes the **policy** holder ID number 311, the type of coverage 321, the extent of coverage 322, the...
- ...the number of claims pending 328,  
Figure 3C shows the fields of the syndication (by **policy** ) database 330, This database has a separate entry for each **policy** in syndication, listing information regarding the syndication status of that **policy** , An entry includes the **policy** number 327, the amount of risk 331 assumed in syndication of the **policy** (that is, the amount that has been offered for syndication, which may or may not...
- ...amount of risk 332 borne by the underwriter (that is, the insurance company issuing the **policy** ), the number of premium payments made to-date 333, total number of premium payments to be

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paid during the life of the **policy** 334, the number of investors in the syndicate 335 (that is, the number of 5 persons who have invested in syndication of that **policy** ), the expiration date 336 of the **policy** , and the number of claims pending 328, Figure 3D shows the fields in the investor (by **policy** ) database 340, In this database, an individual **policy** may have multiple entries, one for each investor in that **policy** . An entry thus has the **policy** ID number 327 and an investor ID number 341, Associated with the ID numbers are the amount of risk 342 under the **policy** assumed by the investor, the percentage of the risk 343 under the **policy** assumed by the investor, the amount 344 of the premium on that **policy** received by the investor from each premium payment, the percentage 345 of the premium received...

...number 346 and credit card type 347 used by the investor in connection with that **policy** , the amount of credit 348 on the credit card account which has been frozen, the...

...349 of the credit freeze (which may or may not correspond to the length of **policy** coverage, depending on the terms of the investment), and the name of the credit card...identified by a claim number 361, Each entry in the claims database also includes the **policy** number 327 of the **policy** under which the claim was 5 filed, an indication 362 whether the **policy** has been offered in syndication, the number 335 of investors in the syndicate for that **policy** , and the amount of risk 331 assumed in syndication. Figure 3G shows the fields in...

...database 380, Each entry corresponds to an investment by a particular investor in a particular **policy** . The **policy** is identified by the **policy** number 327, The investor is identified by name 481, Each investor name has associated therewith...

...Each entry also includes the premiums to be paid 334 to the investor on the **policy** , the payment plan 326, and the length 349 of the investor's syndication **contract** relating to the **policy** , A schematic illustration of the syndication service central server 120 is given in Figure 4...

...an e-mail storage device 406. The data storage device 410 includes several databases 125: **policy** database 420, syndication (by **policy** ) database 430, investor (by **policy** ) database 440, investor (by name) database 480, issuing bank database 450, claims database 460 and transaction database 470, The data in the **policy** database 420, syndication (by **policy** ) database 430, investor (by **policy** ) database 440, issuing bank database 450, claims database 460 and

transaction database 470 of the syndication central server 120 has the same **arrangement** as the data in the corresponding **policy** database 320, syndication (by **policy**) database 330, investor (by **policy**) database 340, issuing bank ...and transaction database 370 of the insurance company server 110, Accordingly, the structure of the **policy** database 420, syndication (by **policy**) database 430, investor (by **policy**) database 440, issuing bank database 450, claims database 460 and transaction database 470 is as already described in Figures 3B through 3G, respectively, Where insurance **policies** having data in server 110 are offered for syndication using server 120, the **policy** records will be substantially identical in the corresponding databases, Figure 5 shows the structure of...

...485c, If

5 the investor has used more than one credit card to place investment **orders**, additional fields 486, etc, having the same structure as field 485 are included for each of the additional cards,

Figure 6A shows an example of a posting 600 of **policy** information 101 with syndication information 102 on the syndication website 130, The posting includes the underwriter name 601, the type of coverage 321 and the **policy** number 327, Also included is the percentage of the total risk offered for sale in...

...date of

coverage 325, The user 141 can view a more complete description of the **policy** by clicking box 608, or proceed to place an investment **order** by clicking box 609,

Figure 6B is an example of a web page 620 filled in by a user (investor) 141 to submit an **order** for a syndicated portion of a **policy**, The investor enters his name 481, postal mailing address 482, phone number 483, e-mail...

...485

(including the credit card type and number, issuing bank and expiration date) on the **order** form, This information is added to the investor (by name) database 480 of the syndication central server, The **policy** number 327 and monthly premium 603 are copied from the display 600 of the **policy** information, The investor indicates the percentage 343 of the total risk 331 he wishes to...

...length of credit freeze 349), and

5 then clicks box 621 to submit his investment **order**, Figure 6C is an illustration of a web page which serves as a confirmation 630 of an investor's **order**, The confirmation form may include the investor ID number 341 assigned by the syndication service, the investor's name 481, the investor's credit card type and number 485a, the **policy** number 327, the monthly premium 603,

the amount of risk 631 assumed by the investor...

...the  
cardholder's name 721, address 722, phone number 723,  
date of birth 724, Social **Security** number 725, and the  
5 credit card account number 726,  
Figure 8B shows the fields...in the  
figure is of a credit line freeze performed when an  
investor places an **order** with the syndication service. - 21  
In the practice of this invention, cryptographic  
processing of the...

...receives  
confirmation that he has assumed a portion of a risk  
with respect to a **policy**, he should not be able to deny  
that he accepted the risk when faced with a claim under  
the **policy**; accordingly, the system requires that his  
investment **order** be authenticatable and non-repudiable,  
The cryptoprocessors 204, 404 and 704 can be general  
purpose...

...well as various  
combinations thereof.  
The degree of cryptographic processing depends on the  
degree of **security** that is desired, For example, where  
the primary concern is integrity of the investment  
amount...be used to insure  
non-repudiation of acceptance of a risk associated with  
a given **policy**.  
The operation of the system of the present invention  
5 according to the preferred embodiment...

...the flowcharts shown in Figures 9-14,  
Figure 9 shows the process by which a **policy** is offered  
in syndication by posting on the syndication website  
130. The insurance company reviews the **policies** it has  
issued to determine which **policies** should be offered in  
syndication, and transmits information regarding those  
**policies** to the syndication service for posting on the  
website, Specifically, the central **controller** 201 of  
the Internet 100, In step 1002, the user browses the  
**policy** information on a **policy** by **policy** basis (the  
information for each **policy** being displayed as shown in  
Figure 6A, for example). The user decides to purchase  
a portion of a specific insurance **policy** in syndication  
(step 1003), and then links to the insurance  
syndication **order** form (step 1004) via the insurance  
syndication service homepage (for example, by clicking  
on the box 609 appearing with the display 600 of  
information for that **policy** ).  
The user enters his personal information on **order** form  
620 (step 1005). As discussed above with reference to  
Figure 6B. this information may...

...expiration  
date 485, and e-mail address 484, The user also enters  
information regarding the **policy** in which he wishes to  
invest (step 1006). This information may include the

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**policy** number 327, the portion 343 of the risk he assumes in syndication, and the length...

...is, the duration of the credit freeze 349). The user then clicks the "submit  
- 24

**order** " box 621 (step 1007) which causes the information to be encrypted and transmitted to the...

...prompted with a response  
5 date within which he will receive confirmation of the syndication **contract** , Alternatively, if credit can be verified in real time, an immediate confirmation will be provided...

...flowcharts, show the steps executed by the syndication central server 120 in processing an investment **order**  
103  
In step 1101, the syndication central server 120 receives and decrypts the transmission from a new investment record containing the personal information and investment **ordering** information entered by the user in steps 1005 and 1006. This record is stored in...

...line for the amount of risk assumed by the user in syndication of the specific **policy** for the designated amount of time (step 1104),  
The credit card issuing bank server 150 **accesses** the cardholder database 720 and account database 730 and determines the existing unused credit line...

...investor is not previously known; the server also adds a record to the investor (by **policy** ) database 440 to reflect the information entered by the investor previously in steps 1005 and...

...to the transaction database  
470o  
Based on the user-specified terms entered in the investment **order** , the server calculates the dollar amount of the risk assumed and the dollar amount of...

...premiums to be received by the investor and stores these amounts in the investor (by **policy** ) database 440 (step 1123),  
The server also updates the record in the syndication (by **policy** ) database 430 for the **policy** (step 1124). Specifically, the server decrements the amount of outstanding risk, increments the number of...107 of the investment to the user via the e-mail address provided on the **order** form. Finally, in step 1127, the syndication central server encrypts and transmits the updated syndication...

...is processed by the syndication central server 120. In step 1201, the insurance company central **controller** 201

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receives and decrypts the transmission from the syndication central server sent in step 1127...  
...by the syndication central server 120, Specifically, the insurance company server updates the syndication (by **policy**) database 330 (step 1202), adds a record to the investor (by **policy**) database 340 (step 1203), and adds 35 a record to the billing/payment database 380...

...by the insurance company server 110 in this embodiment when processing premium payments on a **policy**, In step 1301, the insurance company receiv

es a monthly premium check in a certain...

8/3,K/7 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00432428 \*\*Image available\*\*  
**STRUCTURED DATA STORAGE USING GLOBALLY ADDRESSABLE MEMORY**  
**STOCKAGE STRUCTURE DE DONNEES AU MOYEN D'UNE MEMOIRE GLOBALEMENT ADRESSABLE**  
Patent Applicant/Assignee:  
MANGOSOFT CORPORATION,

Inventor(s):  
DAVIS Scott H,  
CARTER John B,  
FRANK Steven J,  
DIETTERICH Daniel J,  
LEE Hsin H,

Patent and Priority Information (Country, Number, Date):  
Patent: WO 9822892 A1 19980528  
Application: WO 97US21466 19971121 (PCT/WO US9721466)  
Priority Application: US 96754481 19961122; US 97827534 19970328

Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW  
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE  
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Publication Language: English  
Fulltext Word Count: 19038

Main International Patent Class: **G06F-017/30**  
International Patent Class: **G06F-12:10**  
Fulltext Availability:  
Detailed Description

Detailed Description  
... recent usage.

In one optional embodiment, the nodes of the network are organized into a **hierarchy** of groups. In this embodiment, the memory subsystems 232a-232c can include a **hierarchy** 1 5 manager that provides

**hierarchical control** for the distribution of data. This includes controlling the migration **controller**, and **policy controller**, which are discussed in detail below, to perform **hierarchical** data migration and load balancing, such that data migrates primarily between computers of the same group, and passes to other groups in **hierarchical order**. Resource distribution is similarly managed.  
FIG. 7 illustrates in more detail one shared memory subsystem...

8/3,K/8 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00432427 \*\*Image available\*\*

**SHARED CLIENT-SIDE WEB CACHING USING GLOBALLY ADDRESSABLE MEMORY**  
**MISE EN ANTEMEMOIRE PARTAGEE SUR LE WEB, COTE CLIENT, AU MOYEN D'UNE**  
**MEMOIRE ADRESSABLE DE MANIERE GLOBALE**

Patent Applicant/Assignee:  
MANGOSOFT CORPORATION,

Inventor(s):  
CARTER John B,  
DAVIS Scott H,  
DIETTERICH Daniel J,  
FRANK Steven J,  
LEE Hsin H,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9822891 A1 19980528  
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Priority Application: US 96754481 19961122; US 97827534 19970328; US  
97848971 19970502

Designated States:

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AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW  
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE  
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 17879

Main International Patent Class: **G06F-017/30**

International Patent Class: **G06F-12:08**

Fulltext Availability:

Detailed Description

Detailed Description

... recent usage.

In one optional embodiment, the nodes of the network are organized into a **hierarchy** of groups. In this embodiment, the memory subsystems 232a-232c can include a **hierarchy** manager that provides **hierarchical control** for the distribution of data. This includes controlling the migration **controller**, and **policy controller**, which are discussed in detail below, to perform **hierarchical** data migration and load balancing, such that data migrates primarily between computers of the same group, and passes to other groups in **hierarchical order**. Resource distribution is similarly managed.

FIG. 7 illustrates in more detail one shared memory subsystem...

8/3,K/9 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00432426 \*\*Image available\*\*

**SYSTEM FOR TRACKING DATA**

**SYSTEME DE SUIVI DE DONNEES**

Patent Applicant/Assignee:

MANGOSOFT CORPORATION,

Inventor(s):

CARTER John B,

DAVIS Scott H,

FRANK Steven J,

PLOUFFE Gerald R,

LEE Hsin H,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9822890 A1 19980528

Application: WO 97US21458 19971121 (PCT/WO US9721458)

Priority Application: US 96754481 19961122; US 97827534 19970328; US 97848970 19970502

Designated States:

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AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW  
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE  
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Publication Language: English

Fulltext Word Count: 17098

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... recent usage.

In one optional embodiment, the nodes of the network are organized into a **hierarchy** of groups. In this embodiment, the memory subsystems 232a-232c can include a **hierarchy** manager that provides **hierarchical control** for the distribution of data. This includes controlling the **migration controller**, and **policy controller**, which are discussed in detail below, to perform 1 0 **hierarchical** data migration and load balancing, such that data migrates primarily between computers of the same group, and passes to other groups in **hierarchical order**. Resource distribution is similarly managed.

FIG. 7 illustrates in more detail one shared memory subsystem...

8/3,K/10 (Item 5 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00432417 \*\*Image available\*\*



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-dustrial plant. This is similar to what the human nervous system does...

8/3,K/13 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00328272 \*\*Image available\*\*

USER DEFINABLE PICTORIAL INTERFACE FOR ACCESSING INFORMATION IN AN  
ELECTRONIC FILE SYSTEM  
INTERFACE GRAPHIQUE DEFINISSABLE PAR L'UTILISATEUR SERVANT A ACCEDER A DES  
INFORMATIONS DANS UN SYSTEME DE FICHIERS ELECTRONIQUE

Patent Applicant/Assignee:

BAKER Michelle,

Inventor(s):

BAKER Michelle,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9610782 A1 19960411

Application: WO 95US13120 19950929 (PCT/WO US9513120)

Priority Application: US 94316518 19940930

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AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP  
KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK  
TJ TM TT UA UG US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT  
LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 33750

Main International Patent Class: G06F-003/14

Fulltext Availability:

Claims

Claim

... an alternative parsegraph within a recursive call to the toplevel to enforce a particular interaction **sequence** with a user. Referring now to Figures 3 and 3a-3d, an icon is defined...for specific operations such as the creation of temporary icons and the management of non- **hierarchical** crosslinks that are available in the interface but may not be available in the underlying...They are deleted from the lcon.list when a change-directory command executes.  
Alternatively the **policy** could be to delete these icons at startup time - i.e. to clear the field...

...type - one of DIR or FILE  
icon.crosslink? r If TRUE, this is a non- **hierarchical** link In the Interface and does not reflect the structure of the underlying file system...

...list of  
references to file objects which the user wishes to collect and have immediate **access** to during a session.  
The User-Level Command Scripts  
Information about the user-level commands...animation to a user-level command,

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enables cursor tracking, and enables calibration with other animation **sequences** so that animation **sequences** can be appended to one another while maintaining smooth motion. Information about how an icon...technique for animation calibration which is discussed below in the section entitled "Internal Proceduresw, System **Control** Data Structures

The following data structures are used for system **control** and sequencing of basic execution units.

Input signal mapping is stored in a data structure referred to generally as keycodsgrammer . This is a finite grammar that associates each valid input **sequence** with a keycode-identical set. In the preferred embodiment, this declarative representation is used by...

...standard type of lexical parser to return the appropriate conmiand..class given any valid input **sequence** . The following information is contained in keycode.grammer:  
keycode.grammerAnpuLsequence rstring with coding dependant on...

...In the presently preferred embodiment, the parsegisph is a finite state machine that records valid **sequences** of user-level commands. This is used to place restrictions on certain combinations of commands, particularly in nested animation **sequences** that are used to obtain specific kinds of information from a user (see the parse...system. In the presently preferred embodiment, cormiand invocation is button-based using the game pad **controller** described above. Each command is associated with a small number of input keys which are either pressed together or in **sequence** . Each command is made up of a single basic execution unit which includes a prologue...

...presently preferred embodiment, a number of commands can be associated with identical signals (or signal **sequences** ) from an input device such as a keyboard and mouse, a gamepad **controller** , or an infrared remote **controller** . When more than one command is assigned to a single user input (or **sequence** of inputs), the commands are uniquely distinguishable by the existence of arguments, the type of...the commands in a keycode-identical set are assigned to the same input signal or **sequence** of input signals. input signals from the input device are parsed to return the keycode...

...detailed descriptions of commands are illustrative of the type of commands and style of animation **sequences** that are provided by the invention. Other commands and/or animations can be substituted for...

8/3,K/14 (Item 9 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00260132

METHOD AND APPARATUS FOR CONCURRENCY OF BUS OPERATIONS

PROCEDE ET APPAREIL D'EXECUTION SIMULTANEE D'OPERATIONS DE BUS

Patent Applicant/Assignee:

Search Report from Ginger R. DeMille

COMPAQ COMPUTER CORPORATION,  
Inventor(s):

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FRY Walter G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9408297 A1 19940414  
Application: WO 93US9432 19930930 (PCT/WO US9309432)  
Priority Application: US 92477 19921002

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AT AU BR CA CH DE DK ES FI GB JP KR LU NL NO NZ PL PT RU SE AT BE CH DE  
DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN  
TD TG

Publication Language: English

Fulltext Word Count: 17212

Main International Patent Class: G06F-012/08

Fulltext Availability:

Detailed Description

Detailed Description

... is

said to hold modified or dirty data, In write-back cache systems, the cache **controller** is required to watch or "snoop" the host bus during cycles by other bus masters...

...described below,

Cache management is generally performed by a device referred to as a cache **controller** . A principal cache management **policy** is the preservation of cache coherency, Cache coherency refers to the requirement that any valid...modified location in a write-back cache, In computer systems where independent bus masters can **access** main memory, there is a possibility that a bus master, such as another processor, or a direct memory **access controller** , network or disk interface card, or video graphics card, might alter the contents of a...

...or invalid data, Problems would

result if the processor inadvertently obtained this invalid data, In **order** to maintain cache coherency, it is necessary for the cache **controller** to monitor the host bus when the processor does not **control** the host bus to see if another bus master **accesses** main memory.

This method of monitoring the bus is referred to as snooping.

The cache...

8/3,K/15 (Item 10 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00247293

CRYPTOGRAPHIC DATA SECURITY IN A SECURED COMPUTER SYSTEM  
SECURISATION DE DONNEES CRYPTOGRAPHIQUES DANS UN SYSTEME INFORMATIQUE  
SECURISE

Patent Applicant/Assignee:

SECURE COMPUTING CORPORATION,

Inventor(s):

BOEBERT William E,

MARKHAM Thomas R,

OLMSTED Robert A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9321581 A2 19931028

Application: WO 93US3472 19930415 (PCT/WO US9303472)

Priority Application: US 92870556 19920417

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AU CA JP KZ UA AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 21181

Main International Patent Class: G06F-012/14

International Patent Class: G06F-01:00

Fulltext Availability:

Claims

Claim

... the media  
key,

6 A system according to claim 3 further  
comprising:

the crypto media **controller** also for (1)  
receiving a user PIN from a personal keying device from  
a user seeking **access** to an initialized unit of media  
under **control** of the crypto media **controller** ;  
storage search logic in the crypto media  
**controller** for (1) reading the initialized unit of media  
and extracting the media UID,, (ii) searching the storage  
in the personal keying device and extracting the  
enciphered media key/ **access** vector pair for the media  
UID and passing it to a key management crypto in the  
crypto media **controller** ;  
the key management crypto for (i) fetching the  
user UID from the personal keying device...

...PIN, and the enclave key to form a combined key  
to decrypt the media key/ **access** vector pair, and passing  
the extracted media key to a data crypto and the **access**  
vector to the **access control** logic;  
the data crypto for deciphering data on a unit  
of media using the media key and passing it to the  
**access control** logic, the data deciphered in response to  
15 a read or write request for the data by the Workstation;  
the **access control** logic for controlling  
whether the desired mode of **access** is permitted based on  
the **access** vector and the device attributes contained  
within the crypto media **controller** , and aborting the  
attempted **access** to the data if the **access** is not  
permitted and otherwise permitting the **access** whereby

data is transferred to a Workstation for processing; and the crypto media **controller** including logic for 25 causing a complete reset of the crypto media **controller** and requiring the keying process to be started from the beginning in the event that ...or the unit of media is removed from the o A data enclave method for **securing** data carried on physical units of fixed and removable media in a network including a...

...to which a user UID has been assigned, and using them to represent the privileges and other **security** related information that pertains to each user;  
(h) providing a media key for each unit...

...a media UID has been assigned, and using them to represent the sensitivity or other **security** related information that may pertain to the data carried on the units of media;  
(k) providing an **access** vector associated with each media key to form media key/ **access** vector pairs, storing them in the personal keying devices, and using them to represent the possible conditions of **access** to the data encrypted on the media for the user assigned to the personal keying device holding the media key/ **access** vector pair or pairs, and forming the **access** vector using the corresponding media attributes and user attributes, and a set of **access rules** ;  
(l) storing the media key/ **access** vector pairs in the personal keying devices enciphered with a combined key including the userfs...

...enclave key;  
(m) providing device attributes for each attributes of the workstations; and  
(n) providing **access control** logic in each 5 crypto media **controller** for restricting **access** to the data on the media based on the user's PIN, the **access** vector and the device attributes for the Workstation from which **access** is attempted.  
8e A method according to claim 7 further comprising the steps of:  
(a) providing key management crypto logic in each crypto media **controller** or (i) receiving a requesting user's PIN from a personal keying device, (ii) receiving...

...indexing the user attribute data base with the user UID to extract the set of **security** attributes pertaining to the requesting user and passing the **security** attributes to **security policy** logic in the server;  
(d) the **security policy** logic accepting the media attributes and the requesting users **security** attributes and, using a set of **rules** and/or under the direction of a system administrator, computing a new **access** vector which defines limits on the **access** the

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requesting user will have to the new unit of media;  
(e) the key management...

- ...key for the new unit of  
mediar and (ii) and enciphering the new media key/ **access**  
vector pair formed with the new media key and new **access**  
vector with a combined key including the user UID, the  
25 user PIN and the...
- ...the first packet was received; and  
(h) providing storage-search logic in the  
crypto media **controller** for (i) receiving the new media  
UID and writing it to an appropriate location on...
- ...new  
unit of media and (ll) storing the second packet  
containing the new media key/ **access** vector pair in the  
personal keying device attached to the Workstation using  
the new media...further  
comprising the steps of:  
(a) providing key management crypto logic in  
each crypto media **controller** for (i) receiving a  
requesting user's PIN from a personal keying device  
(ii) receiving...
- ...an  
initialized unit of media and searching the personal  
keying device for a media key/ **access** vector pair for the  
initialized unit of media for the requesting user using  
the user...
- ...encrypting the first  
packet with the enclave key, and (iii) sending the  
packet to the **security** server over the network;  
(c) providing key management crypto logic in  
the server for decrypting...
- ...UID, and the media UID  
and the request;  
(d) providing storage search logic in the  
**security** server for (i) reading a user attribute data  
base stored in the server using the...
- ...user attribute data base using the  
user's PIN as an index and extracting the **security**  
attributes of the requesting user, and (v) passing the  
**security** attributes to **security policy** logic in the  
server;  
(f) the **security policy** logic receiving the  
**security** attributes and computing a new **access** vector  
which defines limits on the **access** the user may have to  
the initialized unit of media, the new **access** vector  
computed using a set of **rules** and/or with the  
intervention of a system administrator;  
(g) the storage search logic also...
- ...f inding  
an enciphered key packet in a crypto key data base held  
in the **security** server which has been previously stored  
and which contains the media-key for the initialized...

...is found extracting the media key from it, and (1111 forming a new media key/ **access** vector pair with the extracted media key and the new **access** vector, and a new key packet including the new media key/ **access** vector pair, the user UID, and the media UID, and placing the new key packet...

...base for archival purposes;

(h) the crypto key logic also enciphering the new media key/ **access** vector pair with a combined key including the-user UID, the user's PIN, and the enclave 15 key, and transmitting the enciphered packet along the network to the cryptomedia **controllers** and

(1) the crypto media **controller** using the media UID as-an index to store the new media key/ **access** vector pair in the personal keying device from which the user's PIN was entered...

...media key, and has physical possession of the unit. of media controlled by a crypto media **controller** containing the enclave key, the **access** of the user further being restricted by the **access** vector pair with the media key,

108 A Method according to claim 7 further comprising the steps of:

(a) the crypto media **controller** also (J-) receiving a user PIN from a personal keying device from a user seeking **access** to an initialized unit of media under **control** of the crypto media **controller** ;

(b) providing storage search logic in the crypto media **controller** for (i) reading the initialized unit of media and extracting the media UID, (ii) searching the storage in the personal keying device and extracting the enciphered media key/ **access** vector pair for the media UID and passing it to a key management crypto in the crypto media **controller** ;

(c) the key management crypto (i) fetching the user UID from the personal keying device...

...PIN, and the enclave key to form a combined key to decrypt the media key/ **access** vector pair, and passing the extracted media key to a data crypto and the **access** vector to the **access control** logic;

(d) the data crypto deciphering data on a unit of media using the media key and passing it to the **access control** logic, the data deciphered in response to a read or write request for the data by the Workstation;

(e) the **access control** logic controlling whether the desired mode of **access** is permitted based on the **access** vector and the device attributes contained within the crypto media **controller** , and aborting the attempted **access** to the data if the **access** is not permitted and otherwise permitting the **access** whereby data is transferred to a Workstation for processing; and

(f) providing logic in the crypto media **controller** for causing a complete reset of the crypto

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media **controller** and requiring the keying process to be started from the beginning in the event that...

...from the Workstation.

ill A trusted path system for communication between a Workstation and a **secure** computer over a untrusted communication medium, comprising;  
a logic and **control** unit in the Workstation and in the **secure** computer;  
an end-to-end authentication token exchange protocol used to assure the logic and **control** unit in the Workstation is communicating with an authentic logic 20 and **control** unit in the **secure** computer, ...into t interaction between  
next time a legitimate transaction is received by a logic and **control** unit;  
a cryptographic checksum protocol used to assure transactions between the logic and **control** units have not been tampered with, the checksum protocol authenticating single transactions between the **sequences** of transactions; and  
an identification and authentication protocol invoked when a user wishes to interact with the **secure** computer for some period of time, using the keyboard and display of the Workstation and...

?